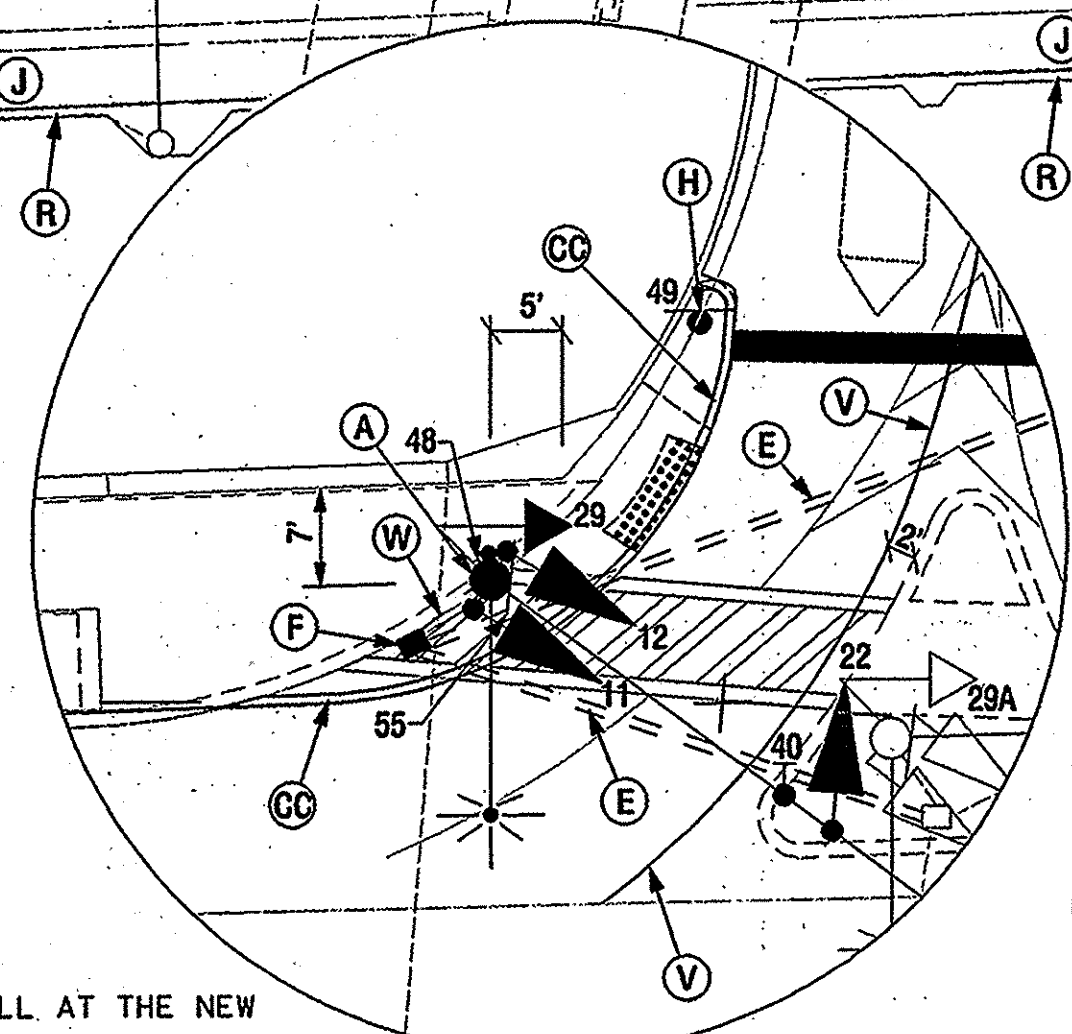


- EXISTING SIGNS**
31, 32, 33, 34, 35
36, 37
31A
33A
50
51
52
53
54, 54
56
57, 58
59
60
61
62
63
64
- PROPOSED SIGNS**
38, 39
40
49
55
56
57, 58
59
60
61
62
63
64
- PROPOSED APS PUSHBUTTON STATION**
R10-4(1)MOD R10-4(1)MOD
(9"x15") (9"x15")
R10-5(L) (30"x36")
R10-6 (24"x36")
R5-1 (30"x30")
R6-1 (36"x12")
- PROPOSED LED SIGNALS**
23-30 11, 12, 22
16" LED COUNTDOWN PEDESTRIAN SIGNAL 12"
12" 12"
- EXISTING SIGNAL TO BE REMOVED**
23A, 24A, 25A, 25B
26A, 27A, 27B, 28A, 29A, 30A
12"
- EXISTING SIGNALS**
1, 2, 6, 3, 4, 5, 8, 7, 10, 13, 9, 16, 17, 14, 15, 20 18, 19
SURVEILLANCE CAMERA
a, b, d
EXISTING VIDEO DETECTION
- NEMA PHASING**
01 02 03 04 05 06
FLASHING OPERATION

NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

- CONSTRUCTION DETAILS**
A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 70 FT. MAST ARM (PAINTED FEDERAL GREEN) WITH LED SIGNAL HEADS, SIGNS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1)MOD, PEDESTRIAN SIGN, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE. RELOCATED 250 WATT HPS LUMINAIRE AND RELOCATED 15 FT. LIGHTING ARM. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND)
B. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE (PAINTED FEDERAL GREEN) WITH BREAKAWAY BASE. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1)MOD, PEDESTRIAN SIGN, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)
C. REMOVE CONCRETE, INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED, THEN REPLACE CONCRETE SIDEWALK. NEW CONDUIT TO EXISTING CONDUIT IN HANDHOLE USING FLEXIBLE CONDUIT. REMOVE THE EXISTING ELECTRICAL CABLES. CONNECT ENCASE CONDUIT IN CONCRETE THEN REMOVE EXISTING HANDHOLE AND COVER 12 IN. BELOW PAVEMENT ENVELOPE AND BACKFILL.
D. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
E. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
F. INSTALL HANDHOLE.
G. INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
H. INSTALL GROUND MOUNTED SIGN. (HEIGHT TO CLEAR ADJACENT WALL)
I. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND HARDWARE FROM POLE. REMOVE ELECTRICAL CABLE FROM ALL CONDUIT. HANDHOLES AND CABINET. THEN INSTALL NEW COUNTDOWN LED PEDESTRIAN SIGNAL HEAD SECTION WITH NEW MOUNTING HARDWARE, R10-4(1)MOD PEDESTRIAN SIGN AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON THE FACE PLATE.
J. USE EXISTING HANDHOLE.
K. USE EXISTING CONDUIT.
L. USE EXISTING CONDUIT.
M. USE EXISTING CABINET AND INSTALL SIGNAL CABLES.
N. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND MOUNTING HARDWARE FROM POLE AND REMOVE ELECTRICAL CABLE FROM ALL CONDUIT, HANDHOLES AND CABINET.
O. REMOVE EXISTING PAVEMENT MARKING.
P. USE EXISTING ACCESS BOX IN BRIDGE WALL.
Q. USE CONDUIT IN BRIDGE WALL FOR INSTALLATION OF SIGNAL CABLES AND EQUIPMENT.
R. VIDEO DETECTION ZONE.
S. CAP AND ABANDON EXISTING CONDUIT.
T. REMOVE EXISTING PEDESTAL POLE AND BREAKAWAY BASE FROM EXISTING FOUNDATION AND INSTALL AT THE NEW LOCATION. THEN REMOVE CONCRETE FOUNDATION 12 IN. BELOW GRADE.
U. INSTALL 5 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR LANE LINE.
V. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
W. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE, BREAKAWAY BASE, NEW LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1)MOD, PEDESTRIAN SIGN, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND)
X. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
Y. REMOVE EXISTING LIGHTING ARM AND LUMINAIRE FROM MAST ARM POLE AND RELOCATE THEM TO NEW MAST ARM POLE LOCATION. THEN REMOVE EXISTING MAST ARM POLE AND ALL ASSOCIATED EQUIPMENT FROM CONCRETE FOUNDATION AND REMOVE CONCRETE FOUNDATION 12 IN. BELOW PAVEMENT ENVELOPE AND BACKFILL.
- CONSTRUCTION DETAILS CONT.**
BB. NOT USED
CC. INSTALL 8 IN. CURB (OMIT GUTTER).
DD. REMOVE BLOCK SECTIONS OF CONCRETE FROM EXISTING ISLAND AS SHOWN ON PLAN AND THE DETECTABLE WARNING SURFACE. REPLACE CONCRETE AND MATCH SURFACE TO EXISTING CUT THROUGH ELEVATION UP TO FACE OF EXISTING SIGNAL POLE AND THEN INSTALL NEW DETECTABLE WARNING SURFACES.
EE. REMOVE EXISTING CONCRETE SIDEWALK AND REPLACE IT WITH NEW DETECTABLE WARNING SURFACE AND NEW PARALLEL SIDEWALK RAMP STANDARD MD 655.12.



DETAIL "AA" THIS SHEET
NOT TO SCALE

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-8564
WWW.SABRA-WANG.COM

APPROVALS		REVISIONS	
TEAM LEADER, TRAFFIC ENGINEERING DIVISION ASSIST. CHIEF TRAFFIC ENGINEERING DIVISION CHIEF TRAFFIC ENGINEERING DIVISION DIRECTOR, OFFICE OF TRAFFIC & SAFETY	ORIGINAL FILE	① TRAFFIC SIGNAL MODIFICATION INSTALL RIGHT TURN SIGNAL APS AND CPS (SHA NOT APPROVED) SHA 10/11/2007	DATE
			SCALE 1"=20'
			DESIGNED BY J. ALLEN
			DRAWN BY J. ALLEN
TEAM LEADER, TRAFFIC ENGINEERING DIVISION ASSIST. CHIEF TRAFFIC ENGINEERING DIVISION CHIEF TRAFFIC ENGINEERING DIVISION DIRECTOR, OFFICE OF TRAFFIC & SAFETY	ORIGINAL FILE	① TRAFFIC SIGNAL MODIFICATION INSTALL RIGHT TURN SIGNAL APS AND CPS (SHA NOT APPROVED) SHA 10/11/2007	COUNTY MONTGOMERY
			LOGMILE 15002906.03
			CHECKED BY S. RENZI
			TOD NO. H414
TEAM LEADER, TRAFFIC ENGINEERING DIVISION ASSIST. CHIEF TRAFFIC ENGINEERING DIVISION CHIEF TRAFFIC ENGINEERING DIVISION DIRECTOR, OFFICE OF TRAFFIC & SAFETY	ORIGINAL FILE	① TRAFFIC SIGNAL MODIFICATION INSTALL RIGHT TURN SIGNAL APS AND CPS (SHA NOT APPROVED) SHA 10/11/2007	FAP NO.
			TS NO. 4191A
			DRAWING 1 OF 2
			SHEET NO. OF

PLOTTED: Friday, March 30, 2007 AT 10:54 AM
FILE: R:\2004\45 SHA BCS 2004-028 TEDD Traffic\Task 24 US 29 at Randolph\Drawings\PSG-p001new.dgn